HONDA ServiceNews November 2004

New Software for HDS: Version 1.015.006

During the week of November 22, 2004, all Honda dealerships were sent a new CD containing HDS software version 1.015.006. This new CD has an aqua label (looks like a familiar brand of aftershave) that reads "Honda Diagnostic System Installation Disk (VER 1.015.006), November 2004." Your system administrator should have this software already loaded onto the master server.

Here's some important info on 1.015.006:

- Includes software updates for the HDS Tablet, the new HDS Pocket Tester, and the *i*N workstation.
- System coverage has been added for '05 Accord Hybrids.
- The EVAP System Function Test has been added for '05 Accord L4s.
- The body electrical function tests have been improved.

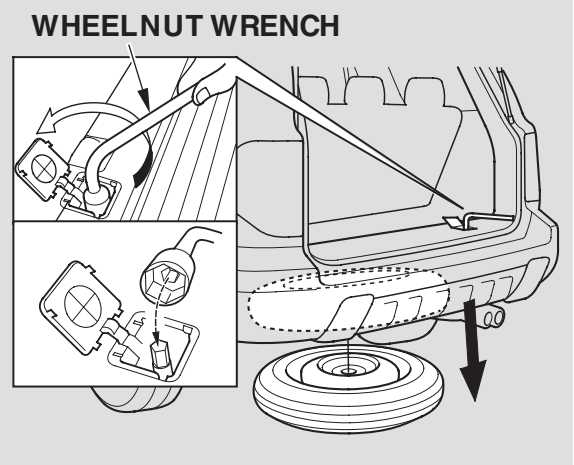
Windshield Washer Maintenance Tips

Windshield washers play an important part in driver safety and convenience. When Mother Nature gets nasty, they can rack up a lot of usage and, consequently, a lot of wear and tear. Here are some handy tips to ensure the washer system in your customer's vehicle is in top operating condition:

- **Check the washer fluid level.** Make sure the washer bottle is filled to the proper level. If you need to add fluid, always use Honda Windshield Washer Concentrate Cleaner & Antifreeze (P/N 08798-9025, H/C 6864045). Don't use plain water; it's just not a very good cleaner. The Honda washer fluid also works as an antifreeze so the washer bottle doesn't freeze up in cold weather.
- **Check the washer fluid concentration.** Use a hydrometer, and adjust the washer fluid concentration level if needed. You'll find the concentrate mixture levels listed on the Honda bottle.
- **Check the washer nozzle aim.** Make sure the washer nozzles are aimed correctly.

'05 Pilot Has New Spare Tire Hoist and Wheel Nut Wrench

The spare tire hoist and the wheel nut wrench on '05 Pilots aren't the same as the ones you'll find on '03–04 models. The hoist shaft is now a **4.8 mm penta** drive instead of a **19 mm hex** drive. The wheel nut wrench also has a special recess in its socket to fit this drive. You must use this wrench to lower or raise the hoist; no other tool will work.



NOTE: The Parts Catalog has wrong P/Ns listed for the spare tire hoist and the wheel nut wrench for the '05 Pilot. When ordering, use this info instead:

Spare Tire Hoist: P/N 74711-S3V-A02
H/C 7951841

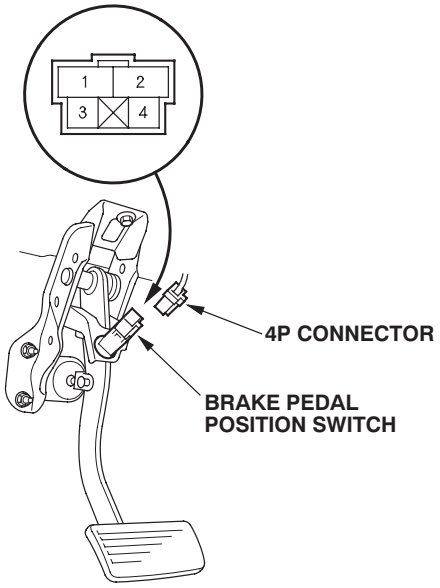
Wheel Nut Wrench: P/N 89211-S3V-A11
H/C 7907645

Adding ATF? Check Oil Jet Hose for Damage

Here's something we need to really emphasize from last month's article "Replenishing ATF on Vehicles With A/T Oil Jet Kits." Every time you add ATF, make sure you check the oil jet hose carefully for damage and replace it if needed. Step 1 in that article stressed only being careful not to kink or pull on the hose when you're detaching it from the oil jet. Never reinstall an oil jet hose if it's bad; it's an invitation for a come-back.

ABS/TCS DTC 68 Troubleshooting

Troubleshooting an ABS/TCS DTC 68 (brake pedal position switch) in a '03–05 Accord V6? Here's something you want to keep in mind: the brake pedal position switch test on page 22-173 of the 2003–2005 Accord S/M may not find the cause. That's because the continuity checks you do at the 4P connector don't put a load on the brake pedal position switch.



A better way to check terminals No. 1 and No. 2 of the 4P connector is to press the brake pedal, and watch the brake lights. If the brake lights come on, the terminals are OK. If the brake lights don't come on, make sure there are **12 volts** at terminal No. 1. If you read 12 volts, then replace the brake pedal position switch. If you don't read 12 volts, then troubleshoot the circuit.

To check terminals No. 3 and No. 4, test-drive the vehicle above **30 mph**, and set the cruise control. If the cruise control sets, the switch is OK. If it doesn't set, then replace the brake pedal position switch.

Audio-HVAC Subdisplay/ Clock Has Wrong Time

NOTE: This article applies to '03–05 Accord EX-Ls and EX V6s with the navigation system.

Is the time on the audio-HVAC subdisplay/clock not matching the time on the audio-HVAC display module? If this is the case, you need to synchronize the two clocks. Here's how:

1. Press the **SETUP** button on the display module. From the **Set-up Screen**, select **2** or **4**. Then select **Time zone/clock**.
   - If the time is off by exactly **1 hour**, check if the daylight savings setting is on or if the time zone setting is right for your area.
   - If the **Set-up Screen** time matches the subdisplay/clock time, but both times are wrong, touch the **Reset** button on the screen. This clears any adjustments that your customer might have made with the **+** or **-** buttons from the **Clock adjustment** screen.
   - If the subdisplay/clock time doesn't match the display module time on the **Clock adjustment** screen, there could be a communication problem. Go to step 2.
2. Go into the diagnostic mode (see section 22 of the 2003–2005 Accord S/M for details). Select **Functional Setup**, and then **H/U Time Send**. Make sure you've selected **ON**, then touch the **Set** button. You may need to keep doing this last action until the H/U time send completes. If the two clocks still won't sync, then go to step 3.
3. Check the 10P connector between the subdislay/clock and the display module. Look for loose terminals, and check for any opens or shorts in the wires. Repair the connector if needed.

Low Fuel Indicator Comes On at 1/4 Tank

Got a '03–05 Accord in your shop for a customer complaint of the low fuel indicator coming on when the fuel gauge still reads 1/4 tank? Don't bother to do any troubleshooting. The low fuel indicator is designed to come on when the fuel tank level drops down to **3 or 4 gallons** and the fuel gauge reads just less than **1/4** tank.

Left Rear Power Window Glass Lowers Only 1 Inch

Got a '05 Odyssey in your shop with a left rear power window that can't be lowered more than an inch? The problem could be someone lowered the window with the Monroney label still attached. This could have caused damage to the inner weather strip and caused the lever on the power window regulator limit switch to flip over. To fix the problem, do this:

1. Remove the Monroney label from the left rear window.
2. Lower the window just enough to relax the regulator.
3. Remove the sliding door panel and the plastic cover.
4. Loosen the regulator mounting bolts.
5. Use a screwdriver to flip the white plastic lever on the regulator limit switch so it's pointing straight up.
6. Torque the regulator mounting bolts to **8 N·m (6 lb-ft)**.
7. Inspect the door glass inner weather strip. Replace it if it's torn or damaged.
8. Reinstall the plastic cover and the sliding door panel.
9. Test the power window operation.

DVD RES Works With Old- and New-Style Headphones

Here's a little something to keep in mind just in case you're asked by a '02–05 Odyssey or '03–05 Pilot owner. The factory-installed DVD RES works with both the earlier style wireless headphones that you turn on and off with a separate switch and also with the newer style ('05 model) wireless headphones that you turn on and off by pivoting the earpieces.

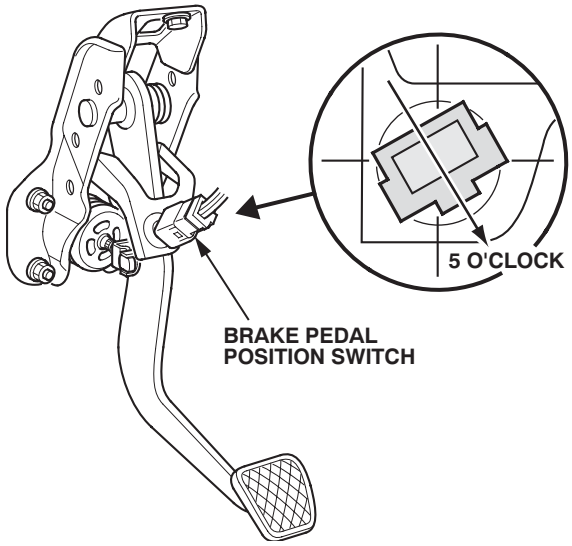
'04 S2000 Headrest Speaker System Fits Earlier Models

The accessory headrest speaker system for '04 S2000s (P/N 08A54-S2A-100, H/C 7581739) also fits all earlier S2000 models. If you're installing these speakers in a '00–03 model, make sure you also order and install the Retro Speaker Harness (P/N 08B54-S2A-100, H/C 7623267).

Click or Pop When Pressing the Brake Pedal

Got a '03–04 Accord or '01–05 Civic in your shop that clicks or pops when you press the brake pedal? The culprit could be the brake pedal position switch. The switch plunger doesn't fit squarely into the switch casing. When you press the brake pedal, the plunger rubs the side of the casing and makes noise.

There's a simple fix for this problem: Just turn the switch around so the connector lock now faces the **5 o' clock** position.



M/T Grinds Shifting to 3rd Gear

Are owners of M/T-equipped '01–05 Civics or '03–04 Civic Hybrids complaining of gear grinding when shifting from 2nd to 3rd or from 4th to 3rd? A new carbon-coated synchronizer 3rd gear set from Honda parts stock is just what the doctor ordered. Ask for P/N 23444-PLW-315, H/C 7701154.

Which Models Have Factory-Installed XM Satellite Radio?

Confused over which '05 Odysseys come with XM satellite radio? Here's the lowdown:

- **EX-L and Touring models with navigation system** - factory installed.
- **EX, EX-L, and Touring models without navigation system** - XM ready
- **LX models** - not XM ready

XM Satellite Radio Messaging at a Glance

This article applies to '04–05 Accords, '05 Odysseys, '05 Pilots, and '04–05 S2000s equipped with XM satellite radio.

Here's a cool chart that shows the various messages you might see on the XM satellite radio display. It also gives you the meaning(s) of each message and what action(s) you should take.

Message Displayed	What It Means	What You Should Do
LOADING	XM radio is getting the audio or program information.	Wait for XM to finish loading.
OFF AIR	This channel has stopped broadcasting.	Try a different channel or wait for programming to resume.
UPDATING	XM radio is being updated with the latest encryption code.	Wait until the encryption code fully updates. Use Channel 0 or 1 in the meantime.
NO SIGNAL	The satellite signal or terrestrial signal is too weak at your current location.	Move your vehicle to where there is a clear view of the southern sky or you get better reception.
CHECK ANTENNA or **ANTENNA** or **ERROR**	The input from the satellite antenna, terrestrial antenna, or both, is either shorted to ground or open.	* Install a known-good XM receiver. * Install a known-good XM antenna. * Make sure the XM antenna connections (satellite and terrestrial) to the XM receiver are correct. * Replace the XM antenna cable.
----- (Some channels)	* This channel number doesn't exist. * Your subscription doesn't include this channel. * This channel doesn't have any artist or title information.	* Switch to another channel. * Add this channel to your subscription.
----- (All channels)	* There's no communication between the XM receiver and the audio unit. * XM radio can't be selected.	* Do the XM receiver input test. * Check terminal fit on the audio unit and XM receiver. * Check the audio unit to XM receiver communication wire for a short, open, or both. * Install a known-good XM antenna, XM receiver, and audio unit one at a time.

Sport Suspension Kit Alignment Specifications

Doing an alignment on a '04 Accord V6 or a '04 Civic 2-door or 3-door equipped with the Sport Suspension Kit? Keep in mind the alignment specs aren't entirely the same as the standard specs in the S/M. Refer to this chart for the proper specs on these vehicles.

		Standard Suspension		Sport Suspension Kit	
		Front	**Rear**	**Front**	**Rear**
'04 Civc 2-door	**Camber**	0° ± 45′	- 0° 45′ ± 45′	- 0° 35′ ± 45′	- 1° 10′ ± 45′
	Caster	1° 33′ ± 1°	N/A	1° 33′ ± 1°	N/A
	Toe-In	0 mm ± 3 mm	2 mm +2/-1 mm	0 mm ± 3 mm	2 mm +2/-1 mm
'04 Civic 3-door	**Camber**	- 0° 10′ ± 45′	- 0° 50′ ± 45′	- 0° 45′ ± 45′	- 1° 15′ ± 45′
	Caster	1° 35′ ± 1°	N/A	1° 35′ ± 1°	N/A
	Toe-In	0 mm ± 3 mm	2 mm +2/-1 mm	0 mm ± 3 mm	2 mm +2/-1 mm
'04 Accord V6	**Camber**	0° ± 45′	- 1° 00′ ± 30′	- 0° 30′ ± 45′	- 2° 20′ ± 30′
	Caster	3° 10′ ± 45′	N/A	3° 10′ ± 45′	N/A
	Toe-In	0 mm ± 2 mm	2 mm ± 2 mm	0 mm ± 2 mm	2 mm ± 2 mm

Keep Power Steering Fluid Off of Drive Belts

Doing repairs that involve the power steering system? Be careful not to spill power steering fluid on the drive belt or the drive belt auto tensioner.

If you get power steering fluid on any of the drive belts, the belts will stick to their pulleys, causing a shuffling noise. If you get it on the auto tensioner, the bearing can get contaminated, causing a growl or a clicking. If you get it on the auto tensioner housing, a nasty buildup of crud could form over time.

Fixing these problems would require replacing the auto tensioner, the drive belts, or both.

Steering Wheel Squeaks When Turning

Got a '05 Odyssey with a steering wheel that squeaks when you turn it? The problem lies in the yellow cancel cam joint that the back of the steering wheel fits into. The cancel cam joint is part of the combination switch assembly. If the steering wheel was installed without first aligning it with the tabs on the cancel cam joint, the joint could get lodged on the steering column shaft, causing the cable reel to squeak when you turn the steering wheel.

To stop this noise, remove the driver's airbag and the steering wheel from the steering column shaft. Remove the cable reel from the combination switch assembly. Then use a flat-head screwdriver to pry the cancel cam joint off of the steering column shaft. Make sure the steering column moves freely. Reinstall the removed items, making sure the slots on the back of the steering wheel are properly aligned with the tabs on the cancel cam joint. There's no need to replace the cable reel; it should work OK.

Got A/T DTC P0706? Check the Switch Combinations

Got a '04–05 Civic in your shop with A/T DTC P0706 (open in transmission range switch circuit)? Hook up the HDS, and check the A/T Freeze Data for these possible switch combinations:

A/T D4 or D3 switch	ON	0
A/T Forward switch	OFF	0

or

A/T D4 or D3 switch	OFF	0
A/T Forward switch	ON	0

Normally, you'll see either D4 or D3 and the Forward switches on. But if you get an oddball combination like shown here, then refer to section 14 of the S/M, and check the shift cable and the transmission range switch adjustments. If you still wind up with this DTC after doing these adjustments, then replace the transmission range switch.

HIMs Available From Special Tool Loan Program

Revised 4/26/07

If you've been following *ServiceNews*, you're probably aware you can configure the Honda Interface Module (HIM) for use as a drive recorder. It's a great way to chase down those elusive or intermittent DTCs. It lets you collect snapshot data for diagnosis exactly when the symptom happens. Your customer does the driving, and you don't even need to go along for the ride!

If it's not practical, though, to leave the HIM with your customer, you can borrow one from the Special Tool Loan Program for a nominal charge. Call American Kowa Seiki at **800-824-9655**.

Information No Longer Valid

Exposure to EMF in Hybrid Vehicles

The introduction of Honda hybrid vehicles has stirred up some concern from vehicle owners about potential health effects from long-term exposure to electromagnetic frequency (EMF) output.

With widespread use of cell phones, laptop computers, and other high-tech electronic devices, this has become a hot-button issue, especially with the media. It's been studied repeatedly, often with conflicting results.

At this time, there's no federally mandated radio frequency (RF) standard. There is, however, a guideline published by the International Commission on Non-Ionizing Radiation Protection. This group is affiliated with the World Health Organization.

To check performance against some internationally recognized benchmark, Honda has tested the Civic Hybrid and found that even in worst-case testing, the resultant measured EMF output was well below that guideline.

Some customers have done their own EMF measurements. These customers are probably using a commercially available field strength meter which is tuned to respond to common frequencies (typically 50 to 60 Hz). In our experience, these field strength meters aren't accurate for measuring the much higher frequency range (over 1 kHz) where Honda's IMA system commonly operates.

O/M Error Alert: Wrong Fuel Requirement Listed

There's an error in the '05 Civic Sedan and '05 Pilot O/Ms you need to be aware of. On page 122 of the Civic Sedan O/M and on page 146 of the Pilot O/M, it states the vehicle is designed to operate on unleaded gasoline with an octane number of **91 or higher**. This isn't true. Both of these vehicles are designed to operate on an octane number of **86 or higher**. All future copies of these O/Ms will be fixed to reflect the correct octane number. Corrected O/Ms will be sent to dealers and owners.

AUTOMOTIVE Youth Educational Systems YES ®

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